```c
#include<stdio.h>

#include<conio.h>

#include<string.h>

int main()

{
        int n,i,j;

        char a[50][50];

        printf("enter the no: intermediate code:");

        scanf("%d",&n);

        for(i=0;i<n;i++)

        {
                printf("enter the 3 address code:%d:",i+1);

                for(j=0;j<6;j++)

                {
                        scanf("%c",&a[i][j]);

                }

        }

        printf("the generated code is:");

        for(i=0;i<n;i++)

        {
                printf("\n mov %c,R%d",a[i][3],i);

                if(a[i][4]=='-')

                {
                        printf("\n sub %c,R%d",a[i][5],i);

                }

                if(a[i][4]=='+')

                {
                        printf("\n add %c,R%d",a[i][5],i);

                }

                if(a[i][4]=='*')

                {
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```c
            printf("\n mul %c,R%d",a[i][5],i);

        }

        if(a[i][4]=='/')

        {

            printf("\n div %c,R%d",a[i][5],i);

        }

        printf("\n mov R%d,%c",i,a[i][1]);

        printf("\n");

    }

    return 0;

}
```



```
enter the no: intermediate code:2
enter the 3 address code:1:a=a+b
enter the 3 address code:2:b=a*d
the generated code is:
 mov a,R0
 add b,R0
 mov R0,a

 mov a,R1
 mul d,R1
 mov R1,b

--------------------------------
Process exited after 33.45 seconds with return value 0
Press any key to continue . . .
```